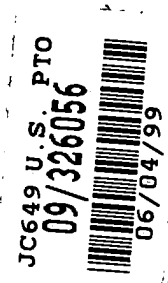


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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S-10-02  
A. Cant

Applicants: Kenneth J. McClellan :  
Serial No.: (S-89,691) : Examiner  
Filed : : Art Unit:  
For : SINGLE CRYSTAL SCINTILLATOR :  
..... :

Assistant Commissioner for Patents  
Washington, DC 20231



**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR 1.56, 1.97, AND 1.98**

Sir:

The documents listed below, copies attached, may be material to the examination of the subject application and are therefore submitted in compliance with the duty of disclosure defined in 37 CFR 1.56.

1. Kazumasa Takagi et al., "Gamma Ray Detector," U.S. Patent 4,647,781, issued March 3, 1987.
2. Charles L. Melcher, "Lutetium Orthosilicate Single Crystal Scintillator Detector," U.S. Patent 4,958,080, issued September 18, 1990.
3. Charles L. Melcher, "Lutetium Orthosilicate Single Crystal Scintillator Detector," U.S. Patent 5,025,151, issued June 18, 1991.
4. Seikichi Akiyama et al., "Single Crystal Scintillator," U.S. Patent 5,264,154, issued November 23, 1993.
5. Ralph A. Manente et al., "Method of Growing Lutetium Oxyorthosilicate Crystals," U.S. Patent 5,660,627, issued August 26, 1997.
6. C.D. Brandle, A.J. Valentino, and G.W. Berkstresser, "Czochralski Growth of Rare-Earth Orthosilicates ( $\text{Ln}_2\text{SiO}_5$ )," J. Crystal Growth, Vol. 79, (1986), pp. 308-315.

7. C.L. Melcher, R.A. Manente, C.A. Peterson, and J.S. Schweitzer, "Czochralski Growth of Rare-Earth Orthosilicates," J. Crystal Growth, Vol. 128, (1993), pp. 1001-1005.

8. G.B. Loutts, A.I. Zagumennyi, S.V. Lavrishchev, Yu.D. Zavartsev, and P.A. Studenikin, "Czochralski Growth and Characterization of  $(\text{Lu}_{1-x}\text{Gd}_x)_2\text{SiO}_5$  Single Crystals for Scintillators," J. Crystal Growth, Vol. 174, (1996), pp. 331-336.

9. Piotr A. Rodnyi, "Physical Processes in Inorganic Scintillators," CRC Press, NY, (1997), p. 50.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional matter material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art under 35 U.S.C. 102.

It is requested that the above citations be made of record in the prosecution of this application.

Dated: June 4, 1999

Respectfully submitted,

*Samuel L. Borkowsky*

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